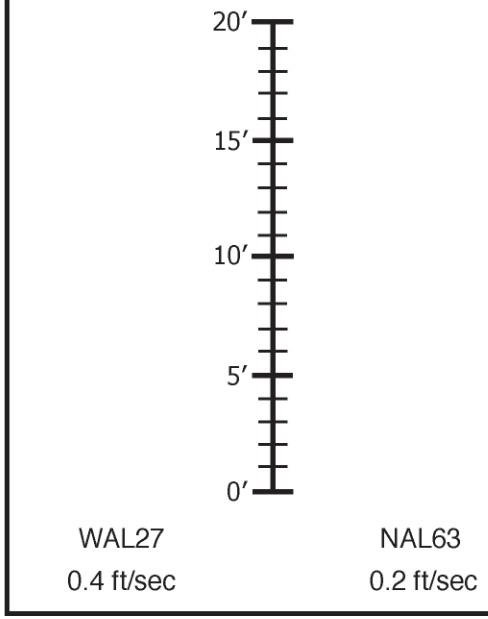
Name _____

Student Assessment E

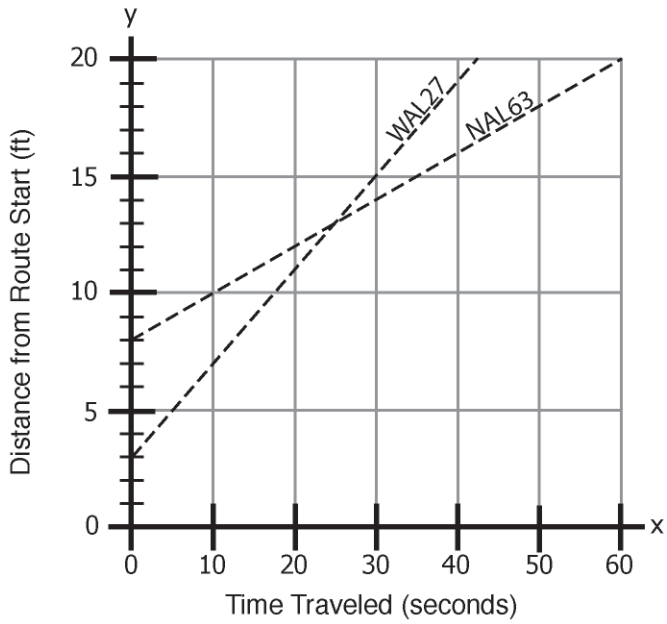
Analyzing a Distance vs. Time Graph for Two Planes

1. Use the information given in the Graph Panel to do the problem below. You do ***not*** need to use the simulator.

Jet Route Panel



Graph Panel



The WAL27 line and the NAL63 line cross when time x = 25 seconds.

Jet Route Panel:

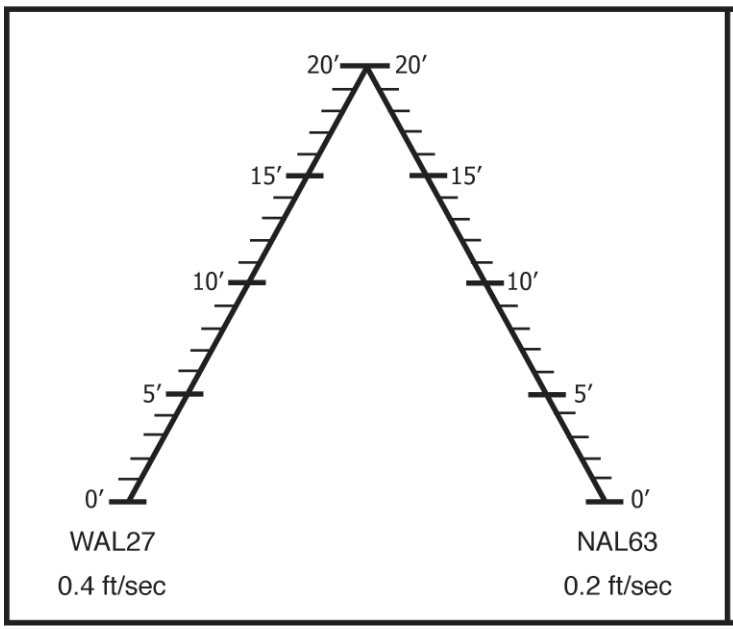
(a) Place an ✕ at the WAL27 position at 25 seconds.

(b) Place a dot (●) at the NAL63 position at 25 seconds.

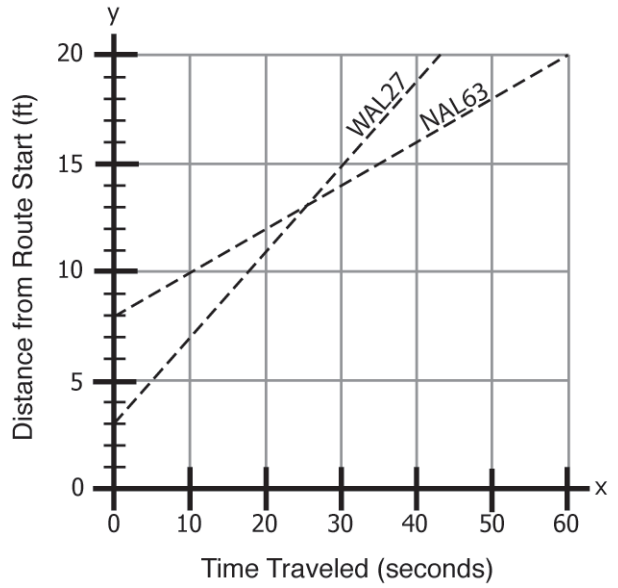
(c) Do the planes collide? Yes No

2. Use the information given in the Graph Panel to do the problem below. You do ***not*** need to use the simulator.

Jet Route Panel



Graph Panel



The WAL27 line and the NAL63 line cross when time x = 25 seconds.

Jet Route Panel:

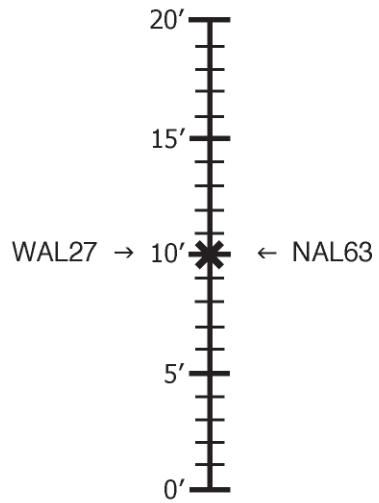
(a) Place an ✕ at the WAL27 position at 25 seconds.

(b) Place a dot (●) at the NAL63 position at 25 seconds.

(c) Do the planes collide? Yes No

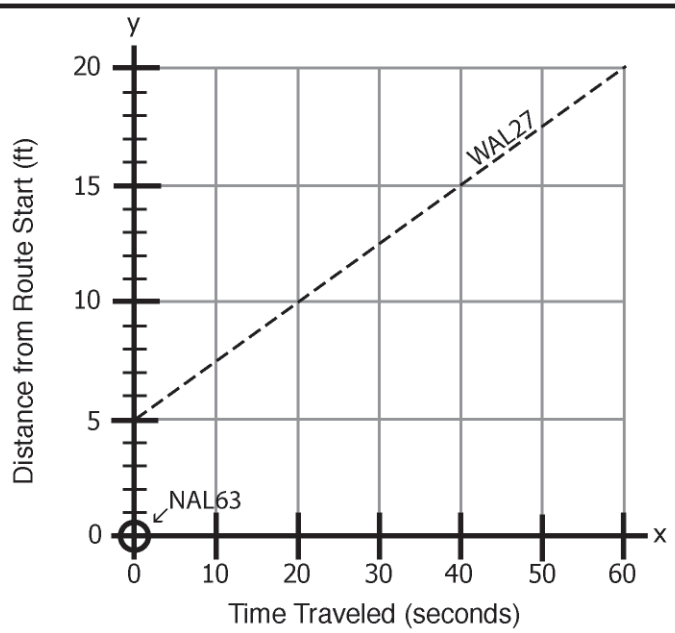
3. Use the information given in the Jet Route Panel to do the problem below. You do ***not*** need to use the simulator.

Jet Route Panel



WAL27 and NAL63 have each flown to 10 feet on the jet route.

Graph Panel

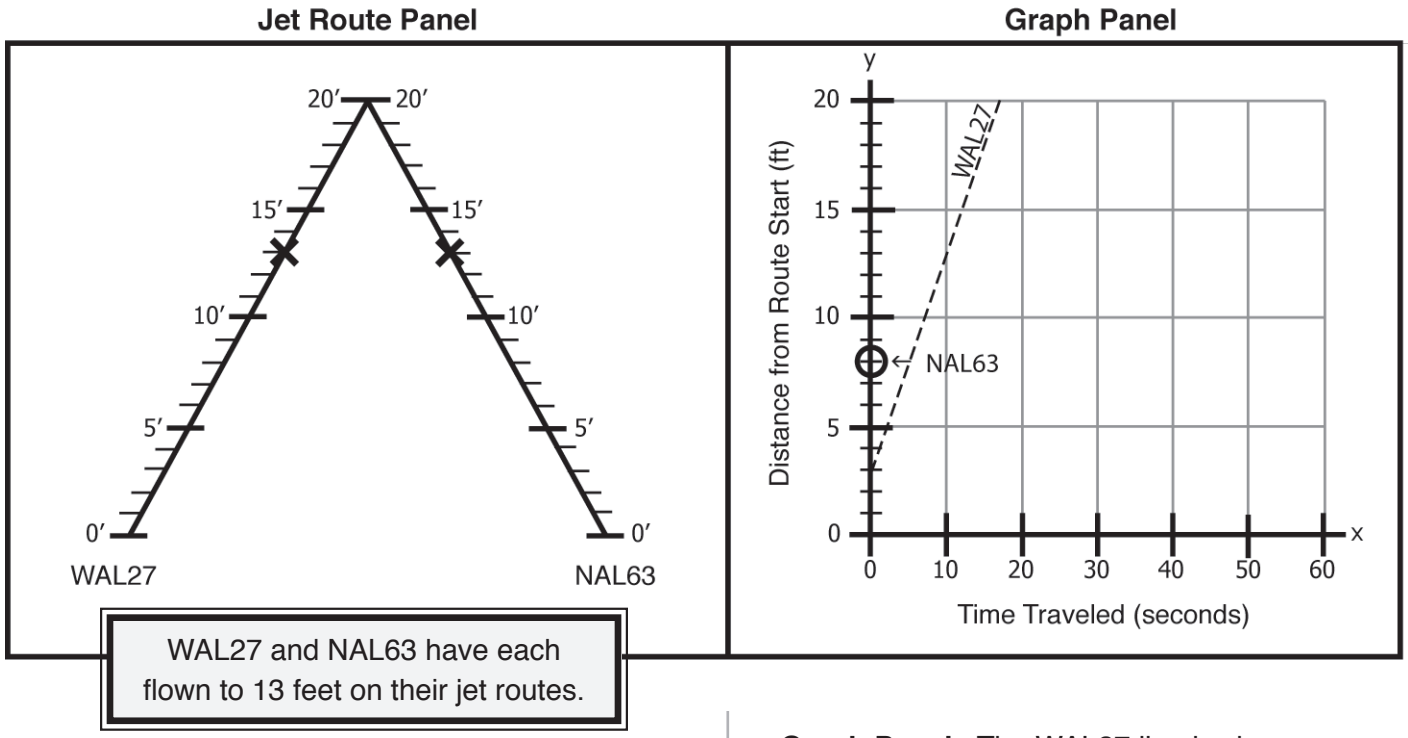


Graph Panel: The WAL27 line is shown.
One point for the NAL63 line is shown.

(a) Plot one more point (●) for the NAL63 line.

(b) Connect the two points to draw the NAL63 line.

4. Use the information given in the Jet Route Panel to do the problem below. You do ***not*** need to use the simulator.



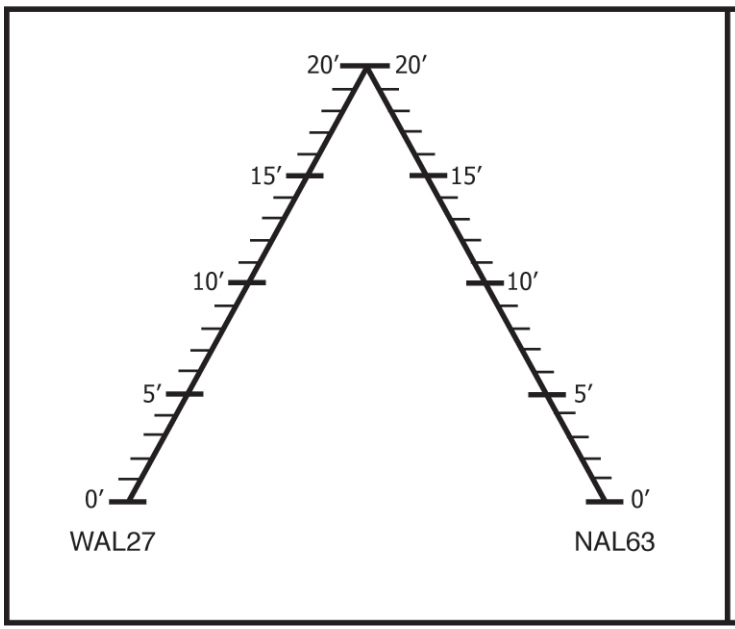
Graph Panel: The WAL27 line is shown. One point for the NAL63 line is shown.

(a) Plot one more point (●) for the NAL63 line.

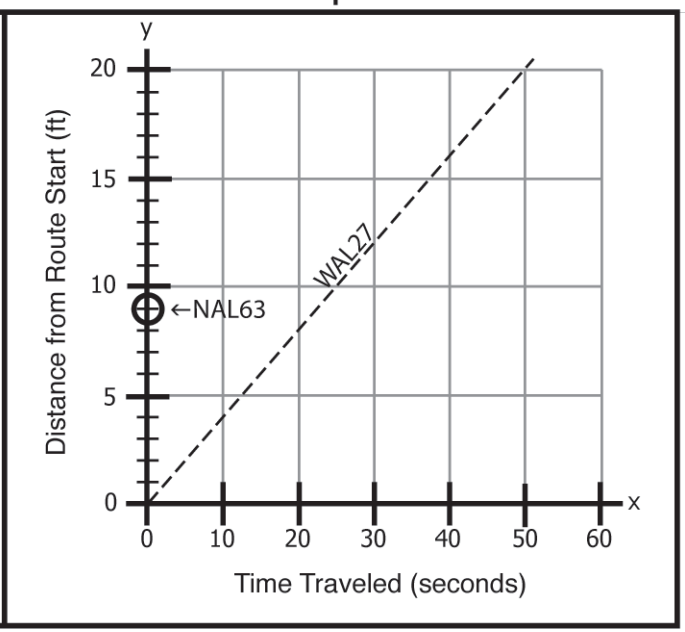
(b) Connect the two points to draw the NAL63 line.

5. Use the information given in the panels to do the problem below. You do ***not*** need to use the simulator.

Jet Route Panel



Graph Panel



Jet Route Panel:

(a) Place an ✕ for WAL27 and a dot (●) for NAL63 at the point where a **collision can occur**.

Graph Panel: The WAL27 line is shown. One point for the NAL63 line is shown.

(b) Plot one more point (●) for the NAL63 line.

(c) Connect the two points to draw the NAL63 line.